

INTERNATIONAL SEARCH REPORT

International application No. **10/535431**
PCT/FI 2003/000751

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: D21F 3/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: D21F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI-DATA, EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0487483 A1 (VALMET PAPER MACHINERY INC.), 27 May 1992 (27.05.1992), column 7, line 26 - line 32; column 8, line 56 - column 9, line 35, figure 5 --	1-18
Y	US 6197156 B1 (ANTTI ILMARINEN), 6 March 2001 (06.03.2001), column 5, line 50 - line 55; column 9, line 13 - line 36 --	1-18
X	FI 109481 B (METSO PAPER, INC.), 15 August 2002 (15.08.2002), page 2, line 30 - page 3, line 2 --	1-18

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

20 January 2004

Date of mailing of the international search report

04 -02- 2004

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000751

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9713030 A1 (VALMET CORPORATION), 10 April 1997 (10.04.1997), The whole document --	1-18
A	US 6210530 B1 (HANS LOSER ET AL), 3 April 2001 (03.04.2001), figure 2 -- -----	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/FI 2003/000751

EP	0487483	A1	27/05/1992	SE	0487483	T3	
				AT	168423	T	15/08/1998
				AT	218648	T	15/06/2002
				CA	2055927	A,C	24/05/1992
				DE	69129788	D,T	19/11/1998
				DE	69133030	D,T	21/11/2002
				EP	0770727	A,B	02/05/1997
				SE	0770727	T3	
				FI	96789	B,C	15/05/1996
				FI	905798	A	24/05/1992
				FI	916094	A	24/05/1992
				US	5389205	A	14/02/1995
				US	5611893	A	18/03/1997
<hr/>							
US	6197156	B1	06/03/2001	AT	4071	U	25/01/2001
				AT	192801	T	15/05/2000
				CA	2086061	A,C	24/06/1993
				DE	9219194	U	07/10/1999
				DE	69231040	D,T	02/11/2000
				EP	0549553	A	30/06/1993
				EP	0718434	A,B	26/06/1996
				SE	0718434	T3	
				EP	0799932	A	08/10/1997
				FI	98844	B,C	15/05/1997
				FI	916100	A	24/06/1993
				FI	970989	A	10/03/1997
				IT	238896	Y	19/02/2001
				IT	MI990751	U,V	23/06/1993
				US	5522959	A	04/06/1996
				US	5639351	A	17/06/1997
<hr/>							
FI	109481	B	15/08/2002	FI	20011032	D	00/00/0000
				WO	02092908	A	21/11/2002
<hr/>							

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal application No.

PCT/FI 2003/000751

WO	9713030	A1	10/04/1997	AT	216444	T	15/05/2002
				BR	9610824	A	13/07/1999
				CA	2233608	A	10/04/1997
				CN	1074483	B	07/11/2001
				CN	1198788	A	11/11/1998
				DE	69620788	D,T	02/10/2002
				EP	0868566	A,B	07/10/1998
				SE	0868566	T3	
				FI	98843	B,C	15/05/1997
				FI	954698	D	00/00/0000
				JP	3319761	B	03/09/2002
				JP	11500792	T	19/01/1999
				US	5792320	A	11/08/1998
				US	5908536	A	01/06/1999
<hr/>							
US	6210530	B1	03/04/2001	DE	19652018	A	18/06/1998
				DE	59707554	D	00/00/0000
				EP	0848106	A,B	17/06/1998
				SE	0848106	T3	
				JP	10168776	A	23/06/1998